

## CLAIMS

What is claimed is:

1. A method for augmenting a debugger having debugging functionality used to debug a first program, comprising the steps of:
  - providing the debugger;
  - providing a second program having second-program functionality; and
  - providing integration code for analyzing commands used to debug the first program, and invoking appropriate pieces of code to perform tasks in responding to such commands;wherein the appropriate pieces of code are selected from one or a combination of functionality provided in a library, the debugging functionality, and the second-program functionality.
2. The method of claim 1 further comprises the step of using an instrumentor as the second program.
3. The method of claim 1 further comprises the step of using a first piece of code having the appropriate pieces of code to perform the tasks.

- 1 4. The method of claim 3 further comprises the step of making the first piece of code an  
2 executable part of the first program.
- 1 5. The method of claim 3 further comprises the step of using a trampoline as the first  
2 piece of code.
- 1 6. The method of claim 1 wherein the commands are selected from one or a  
2 combination of:  
3 input from a user using the debugger;  
4 a script file associated with the first program; and  
5 a configuration file associated the first program.
- 1 7. The method of claim 1 further comprises the step of inputting the commands at a  
2 debugging prompt provided by the debugger.
- 1 8. The method of claim 1 further comprises the steps of:  
2 integrating the debugger, the instrumentor, and the integration code into a  
3 combined code; and  
4 embedding the combined code into a language environment.
- 1 9. The method of claim 8 further comprises the step of using the Integrated Development  
2 Environment as the language environment.

- 1 10. A system for augmenting a debugger having debugging functionality used to debug a  
2 first program, comprising:  
3 the debugger;  
4 a second program having second-program functionality; and  
5 integration code for  
6 analyzing commands used to debug the first program, and  
7 invoking appropriate pieces of code to perform tasks in responding to  
8 such commands;  
9 wherein the appropriate pieces of code are selected from one or a combination  
10 of  
11 functionality provided in a library,  
12 the debugging functionality, and  
13 the second-program functionality.

- 1 11. The system of claim 10 further comprises an instrumentor used as the second  
2 program.

- 1 12. The system of claim 10 further comprises a first piece of code having the appropriate  
2 pieces of code to perform the tasks.

- 1 13. The system of claim 12 wherein the first piece of code is an executable part of the first  
2 program.

- 1 14. The system of claim 12 wherein a trampoline is used as the first piece of code.

- 1 15. The system of claim 10 wherein the commands are selected from one or a  
2 combination of:  
3 input from a user using the debugger;  
4 a script file associated with the first program; and  
5 a configuration file associated the first program.
- 1 16. The system of claim 10 wherein the commands are input at a debugging prompt  
2 provided by the debugger.
- 1 17. The system of claim 10 wherein:  
2 the debugger, the instrumentor, and the integration code are integrated into a  
3 combined code; and  
4 the combined code is embedded in a language environment.
- 1 18. The system of claim 17 wherein the Integrated Development Environment is used as  
2 the language environment.
- 1 19. A computer-readable medium embodying instructions that cause a computer to  
2 perform a method for augmenting a debugger having debugging functionality used to  
3 debug a first program, the method comprising the steps of:  
4 providing the debugger;  
5 providing a second program having second-program functionality; and  
6 providing integration code for  
7 analyzing commands used to debug the first program, and

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8                   invoking appropriate pieces of code to perform tasks in responding to  
9                   such commands;  
10               wherein the appropriate pieces of code are selected from one or a combination  
11               of  
12               functionality provided in a library,  
13               the debugging functionality, and  
14               the second-program functionality.

1   20.   The computer-readable medium of claim 19 wherein the method further comprises the  
2       step of using an instrumentor as the second program.